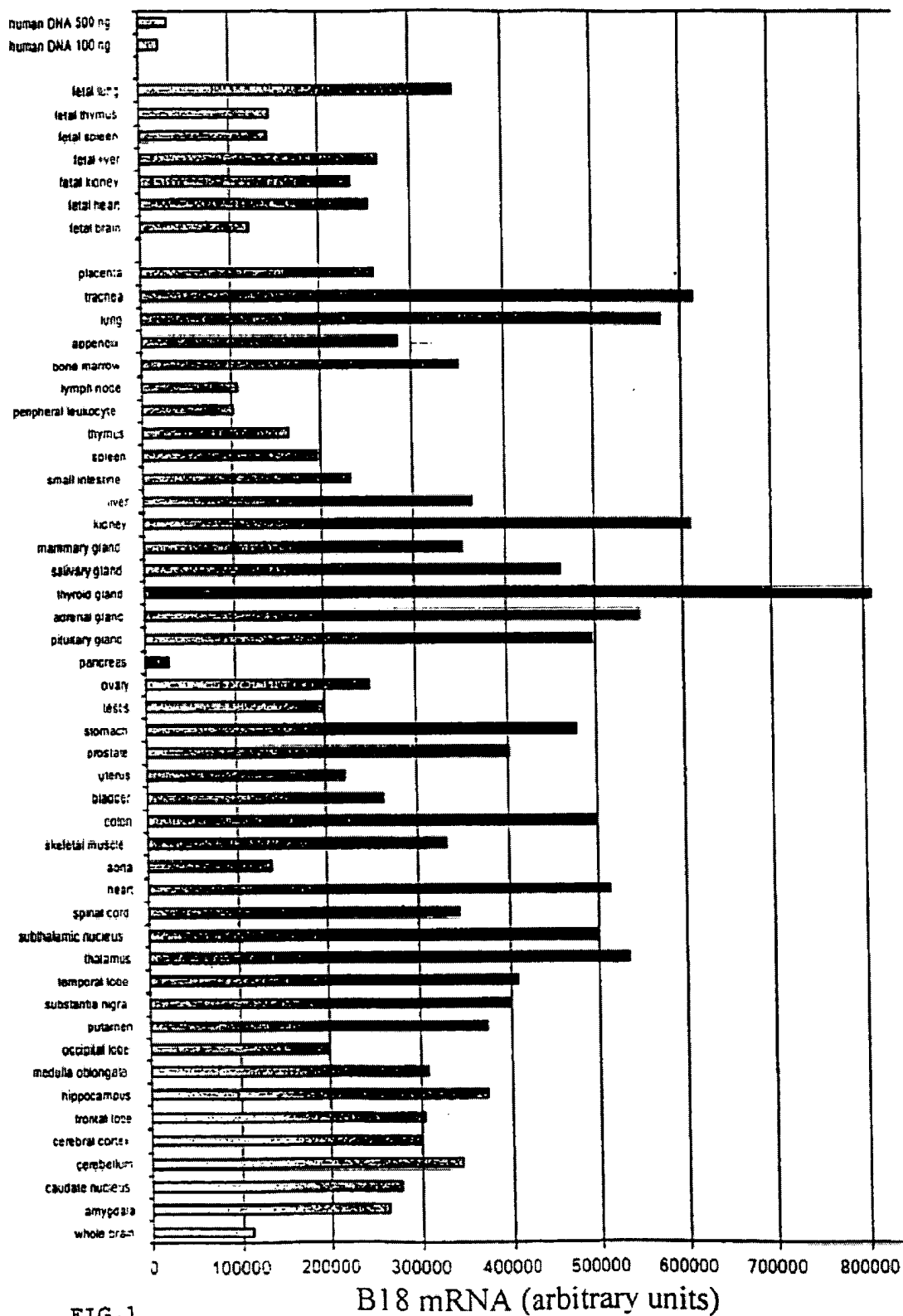


PEROXISOME-ASSOCIATED POLYPEPTIDE, NUCLEOTIDE  
SEQUENCE ENCODING SAID POLYPEPTIDE AND THEIR USES...

Knoops, et al.

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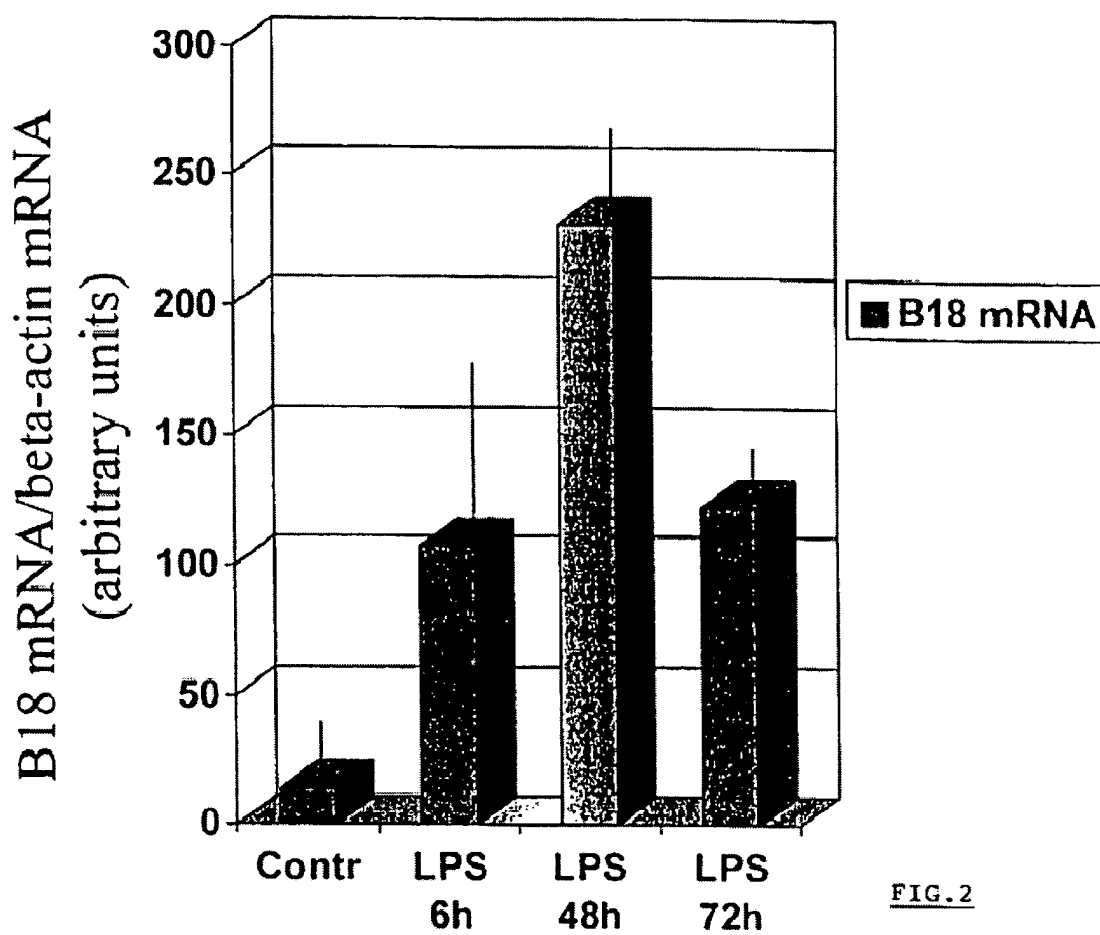
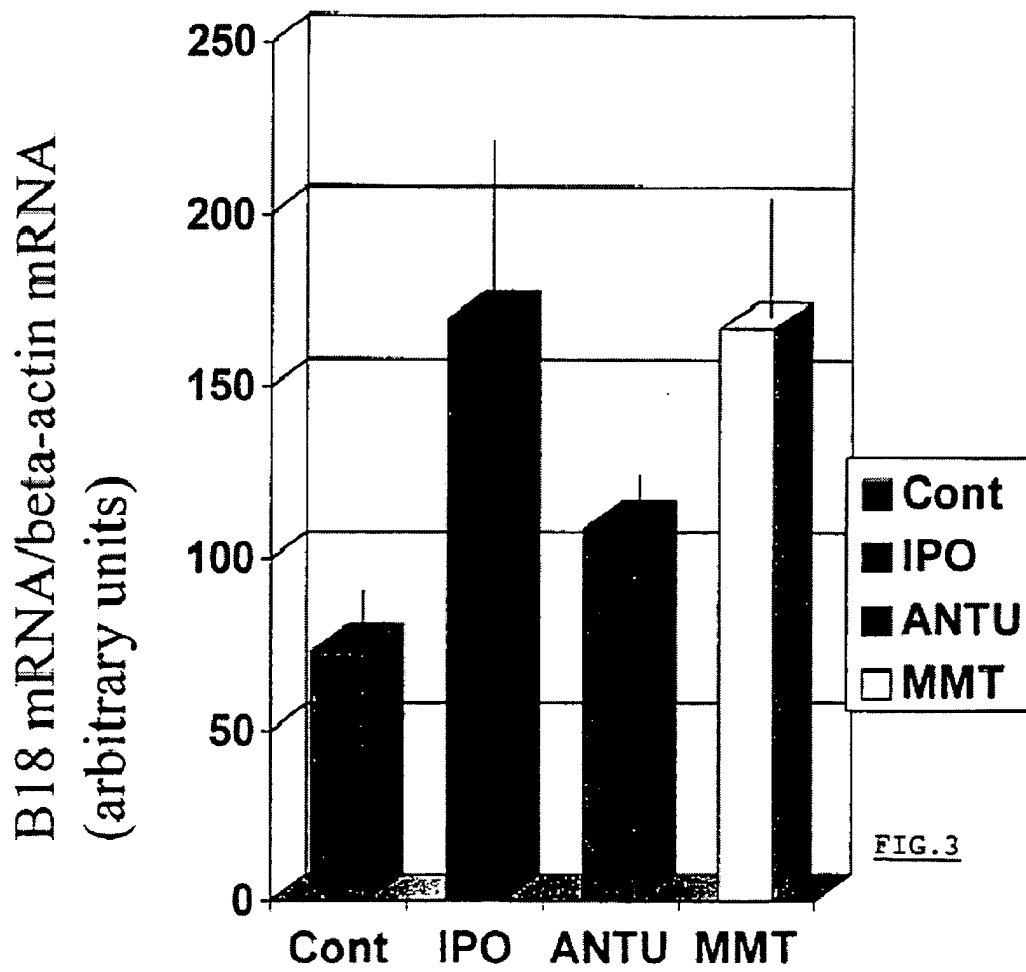
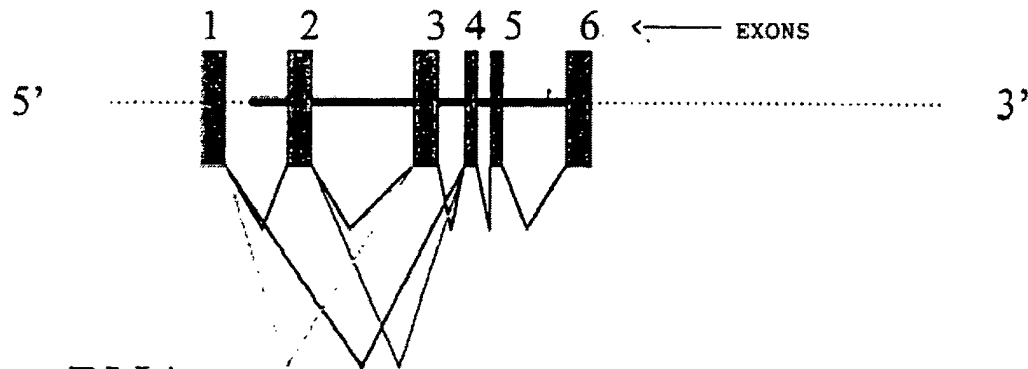


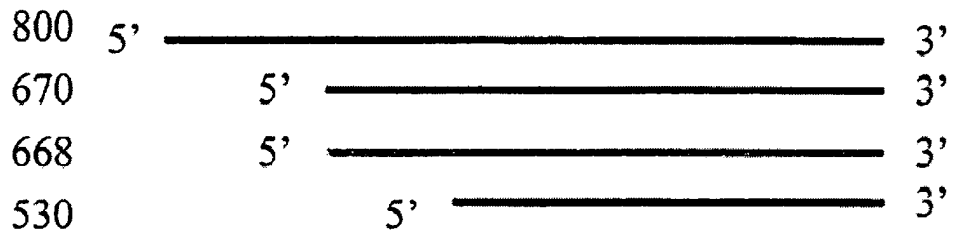
FIG. 2



## Gene (chromosome 11q12-13)



## mRNAs



## Proteins

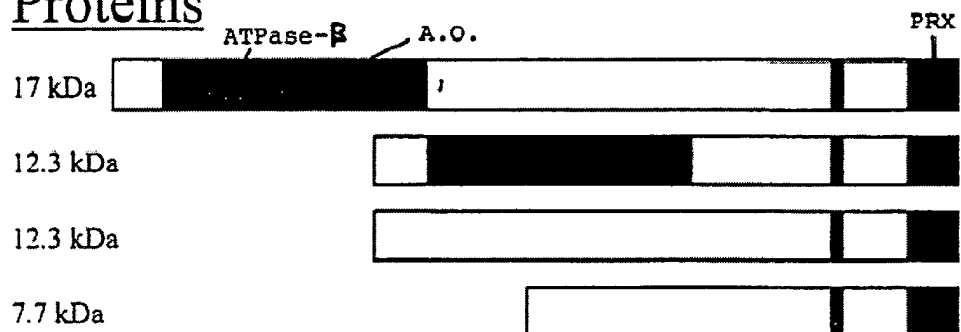


FIG. 4

PEROXISOME-ASSOCIATED POLYPEPTIDE, NUCLEOTIDE  
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CLUSTAL V alignment of human and rat B18 amino acid sequences (Identity:  
90%, Homology: 97.5%):

```

B18hum      MAPIKVGDAIPAVEVFEGEPGNKVNLAELFKGKKGVLFVPGAFTPGCSK = SEQIDNO1
B18rat      MAPIKVGDTIPSVEVFEGEPGNKVNLAELFKDKKGVLFVPGAFTPGCSK
*****
B18hum      THLPGFVEQAEALKAKGVQVACLSVNDAFVTGEWGRAHKAEGKVRLAD
B18rat      THLPGFVEQAGALKAKGAQVACLSVNDVFVTAEWGRAHQAEQVQLLAD
*****
B18hum      PTGAFGKETDLLLDDSLVSIFGNRRLKRFSMVVDGIVKALNVEPDGTGL
B18rat      PTGAFGKETDLLLDDSLVSLFGNRRLKRFSMVIDKGVKALNVEPDGTGL
*****
B18hum      TCSLAPNIISQL
B18rat      TCSLAPNILSQL
*****

```

FIG.5a

CLUSTAL V alignment of human and mouse B18 amino acid sequences (Identity:  
91%, Homology: 96%):

```

B18hum      MAPIKVGDAIPAVEVFEGEPGNKVNLAELFKGKKGVLFVPGAFTPGCSK
B18mouse     MAPIKVGDAIPAVEVFEGEPGNKVNLAELFKGKKGVLFVPGAFTPGCSK
*****
B18hum      THLPGFVEQAEALKAKGVQVACLSVNDAFVTGEWGRAHKAEGKVRLAD
B18mouse     THLPGFVEQAGALKAKGAQVACLSVNDVFVIEEWGRAHQAEQVRLAD
*****
B18hum      PTGAFGKETDLLLDDSLVSIFGNRRLKRFSMVVDGIVKALNVEPDGTGL
B18mouse     PTGAFGKATDLLLDDSLVSLFGNRRLKRFSMVIDNGIVKALNVEPDGTGL
*****
B18hum      TCSLAPNIISQL
B18mouse     TCSLAPNILSQL
*****

```

CLUSTAL V alignment of human and rat cDNA sequences (identity: 612/780,  
78.5%):

```

B18hum      GCCAGGAGGCGGAGTGGAAGTGGCCGTGGGCGGGTATGGGACTAGCTGG
B18rat      -----TG-----CGTC-----CTAGGCAG
              **          ***          ****
B18hum      CGTGTGCGCCCTGAGACGCTCAGCGGCTATATACTCGTGGGTGGGGCCG
B18rat      CATA---GCC---GGA---TCGGTGCTCCGTGCATCGGCTACTTGGAC--
              *   ***   **   * * * * *   *   * * *
B18hum      GCGGTCAGTCTGCGGCAGCGGCAGCAAGACGGTGCAGTGAAGGAGAGTGG
B18rat      -----GTGCGTGCGAGGAGAGCAGGCCGG---AAAGGAGCAGGTTGG
              **   *   *****   **** *   **   *   * * * *

```

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## 8hum

B18hum CCGTCTGGCCGGGTCGCCAGTTTTCAGCAGAGCCGCTGCAGCCATGGCCCC  
B18rat GAGTGTTGGTGGGGCCCAGACTTCAGCAGTGC CGCGGTGACTATGGCCCC  
\* \* \* \* \*

B18hum AATCAAGGTGGGAGATGCCATCCACAGCAGTGGAGGTGTTTGAAGGGGAGC  
B18rat GATCAAGGTGGGAGACACCATTCCCTCAGTGGAGGTATTTGAAGGGGAAC  
\*\*\*\*\*

B18hum CAGGGAACAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAGGGTGTG  
B18rat CTGGAAAGAGGTGAACTTGGCAGAGCTGTTCAAGGACAAGAAAGTGT  
\* \* \* \* \*

B18hum CTCGTTTGAGTTCCTGGGGCCTTACCCCTGGATGTTCCAAGACACACCT  
B18rat TTGTTTGGAGTCCCTGGGGCATTTACACCTGGCTGTTCCAAGACCCATCT  
\*\*\*\*\*

B18hum GCCAGGGTTTGTGGAGCAGGCTGAGGCTCTGAAGGCCAAGGGAGTCCAGG  
B18rat GCCTGGGTTTGTGGAGCAAGCCGGAGCTCTGAAGGCCAAGGGAGCACAAAG  
\*\* \*\*\*\*\* \*\* \*

B18hum TGGTGGCCTGTCTGAGTGTTAATGATGCCTTTGTGACTGGCGAGTGGGGC  
B18rat TGTTGGCCTGTCTGAGTGTTAATGATGTCTTCGTGACTGCAGAGTGGGGT  
\*\*\*\*\*

B18hum CGAGCCCACAAGGCCGAAGGCAAGGTTCCGGCTCCTGGCTGATCCCACTGG  
B18rat CGAGCCCACCAGGCAGAAGGCAAGGTTTCAGCTCCTGGCTGACCCCACTGG  
\*\*\*\*\*

B18hum GGCTTTGGGAAGGAGACAGACTTATTACTAGATGATTGCTGGTGTCCA  
B18rat AGCTTTTGAAAGGAGACAGATTTACTACTAGATGATTCTTTGGTGTCTC  
\* \* \* \* \*

B18hum TCCTTTGGGAATCGACGCTCTCAAGAGGTTCTCCATGGTGGTACAGGATGGC  
B18rat TCCTTTGGGAATCGTCGGCTAAAAAGGTTCTCCATGGTGATAGACAAGGGC  
\*\*\*\*\*

B18hum ATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCCTCACCTGCAG  
B18rat GTAGTAAGGCACTGAACGTGGAGCCGGATGGCACAGGCCTCACCTGCAG  
\*\*\* \*\* \*

B18hum CCTGGCACCAATATCATCTCACAGCTCTGAGGCCCTGGGCCAGATTACT  
B18rat CCTGGCCCCAACATPCTCTCACAACCTCTGAGGCCCTGA--CCAGA--ATG  
\*\*\*\*\*

B18hum TCCTCCACCCCTCCCTATCTCACCTGCCAGCCCTGTGCTGG--GGCCCTG  
B18rat TCCTCTGACTCTCCC--ATCTCCTCCACCCAGCTCTGGGCCAAAGGCCAG  
\*\*\*\* \* \*\*\*\* \* \*\*\*\* \* \*\*\*\* \*

B18hum CA-----ATTGGAATG-----TTGGCCAGATTTCTGC  
B18rat TAGCTCCTTACCTGAGGGCCACTGGAATGGAACCTTGACAAATATTCTGC  
\* \*\*\*\*\* \*\* \* \*

B18hum AATAAACACTTGTGTTTGGGAAAAAAA-----  
B18rat AATAAACAGTT-TAATTTGTGAAAAAAAAAAAAAAAAAAAA  
\*\*\*\*\*

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CLUSTAL V alignment of human and mouse cDNA sequences (Identity: 552/675, 81.8%):

**FIG.5c**

B18hum	GCCAGGAGGCGGAGTGGAACTGGCCGTGGGGCGGGTATGGGACTAGCTGG
B18mouse	-----
B18hum	CGTGTGCGCCCTGAGACGCTCAGCGGGCTATATACTCGTGGTGGGGCCG
B18mouse	-----TGCTCCGTG-----CATCGACGTGCTTG
	* * * * *
B18hum	GCGGTGAGTCTGCGGCAGCGGCAGCAAGACGGTGCAGTGAAGGAGAGTGG
B18mouse	GCAGGCAG-----AGCAGGCCGG---AAAGAAGCAGGTTGG
	* * * * *
B18hum	GCGTCTGGCGGGGTCCGCAGTTTCAGCAGAGCCGCTGCAGCCATGGCCCC
B18mouse	GAGTGTGGCGAGCCCCGAGCTTCAGCAGCTCCGCGGTGACCATGGCCCC
	* * * * *
B18hum	AATCAAGGTGGGAGATGCCATCCCAGCAGTGGAGGTGTTTGAAGGGGAGC
B18mouse	GATCAAGGTGGGAGATGCCATTCCCTCAGTGGAGGTATTTGAAGGGGAAC
	* * * * *
B18hum	CAGGGAACAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAGGGTGTG
B18mouse	CGGGAAAGAAGGTGAACCTGGCAGAGCTGTTCAAGGGCAAGAAGGTGTT
	* * * * *
B18hum	CTGTTTGGAGTTCCTGGGGCCTTCACCCCTGGATGTTCCAAGACACACCT
B18mouse	TTGTTTGGAGTTCCTGGGGCATTACACCTGGCTGTTCTAAGACCCACCT
	* * * * *
B18hum	GCCAGGGTTTGTGGAGCAGGCTGAGGCTCTGAAGGCCAAGGGAGTCCAGG
B18mouse	GCCTGGGTTTGTGGAGCAAGCTGGAGCTCTGAAGGCTAAGGGAGCGCAGG
	* * * * *
B18hum	TGGTGGCCTGTCTGAGTGTAAATGATGCTTTGTGACTGGCGAGTGGGGC
B18mouse	TGGTGGCCTGTCTGAGCGTTAATGACGCTTTGTGATTGAAGAGTGGGGT
	* * * * *
B18hum	CGAGCCCAACAAGGCGGAAGGCAAGGTTCCGGCTCCTGGCTGATCCCACTGG
B18mouse	CGAGCCCAACAGGCAGAAGGCAAGGTTCCGGCTCCTGGCTGACCCCACTGG
	* * * * *
B18hum	GGCCTTTGGGAAGGAGACAGACTTATTACTAGATGATTCGCTGGTGTCCA
B18mouse	AGCCTTTGGGAAGGCGACAGACTTATTATTGGATGATTCCTTGGTGTCTC
	* * * * *
B18hum	TCTTTGGGAATCGACGTCTCAAGAGGTTCTCCATGGTGGTACAGGATGGC
B18mouse	TCTTTGGGAATCGTCCGCTGAAAAGGTTCTCCATGGTGATAGACAACGGC
	* * * * *
B18hum	ATAGTGAAGGCCCTGAATGTGGAACCAGATGGCACAGGCCTCACCTGCAG
B18mouse	ATAGTGAAGGCACTGAACGTGGAGCCAGATGGCACAGGCCTCACCTGCAG
	* * * * *
B18hum	CCTGGCACCCCAATATCATCTCACAGCTCTGAGGCCCTGGGCCAGATTACT
B18mouse	CCTGGCCCCCAACATCCTCTCCCAACTCTGAGGCCCTGG-CCAGATG---
	* * * * *
B18hum	TCCTCCACCCCTCCCTATCTCACCTGCCAGCCCTGTGCTGGGGCCCTGC
B18mouse	TCCTCTGACTCTCCC-ATCTCTCCACCCGGCTCT-----AGGCC---
	* * * * *
B18hum	AATTGGAATGTTGGCCAGATTTCTGCAATAAACACTTGTGGTTTGGCGAA
B18mouse	----AAAGGCTCGGTACCTCCTTACTGGGAGC-CACGT-----
	* * * * *

Fig. 6.

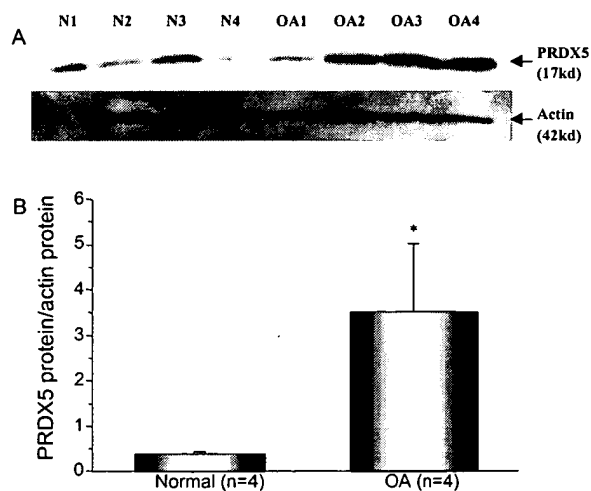


Fig. 7.

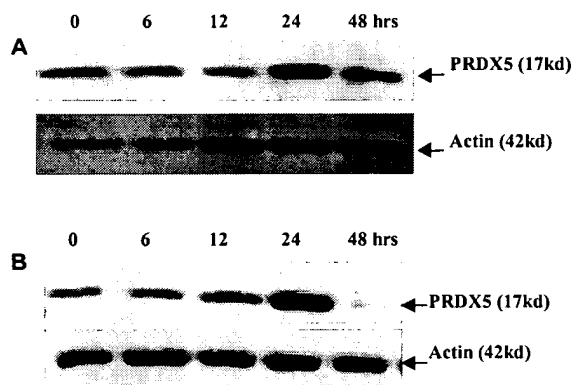




Fig. 8.

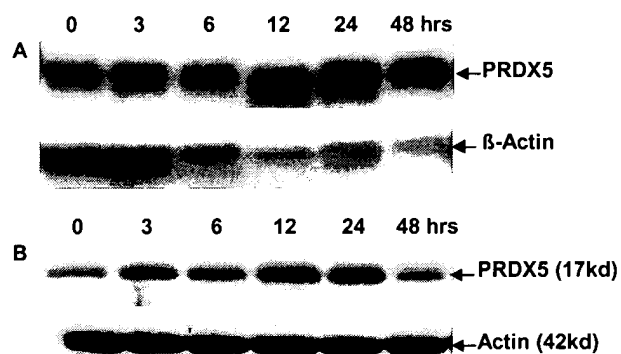
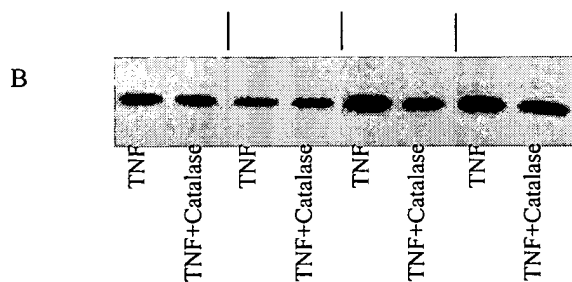
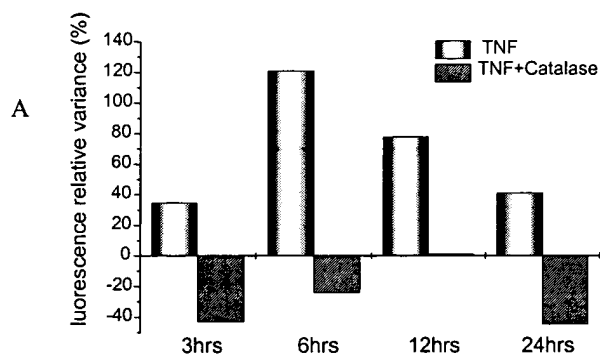


Fig. 9.



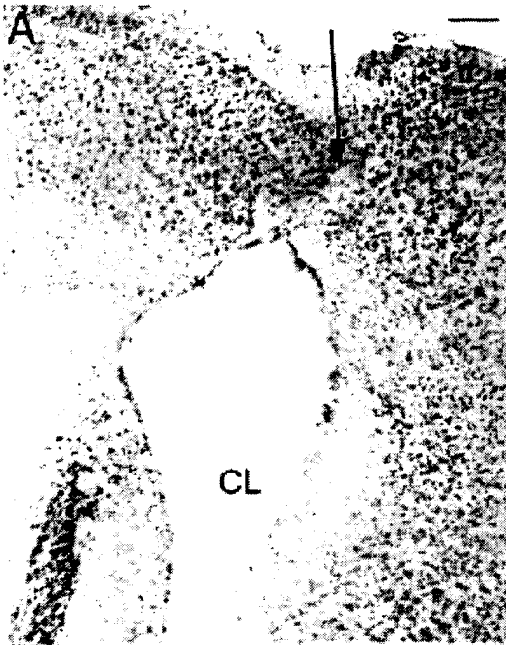


Fig. 10



Fig. 11

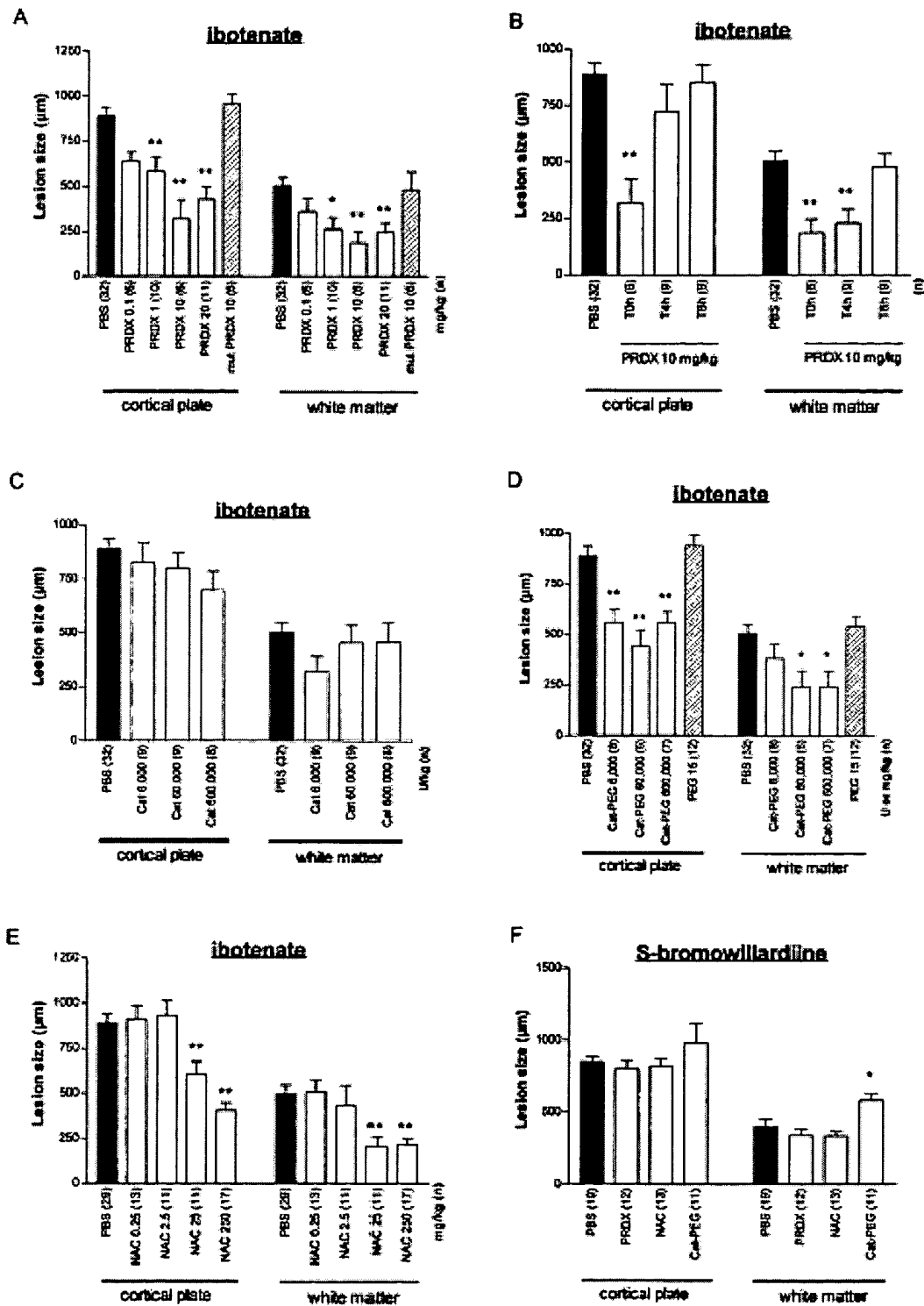


Fig. 12

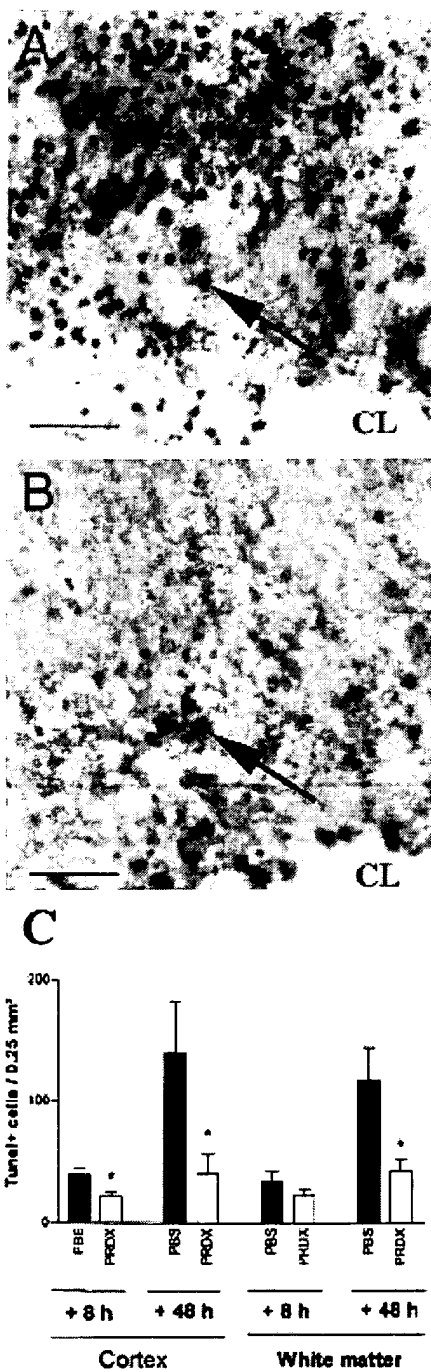
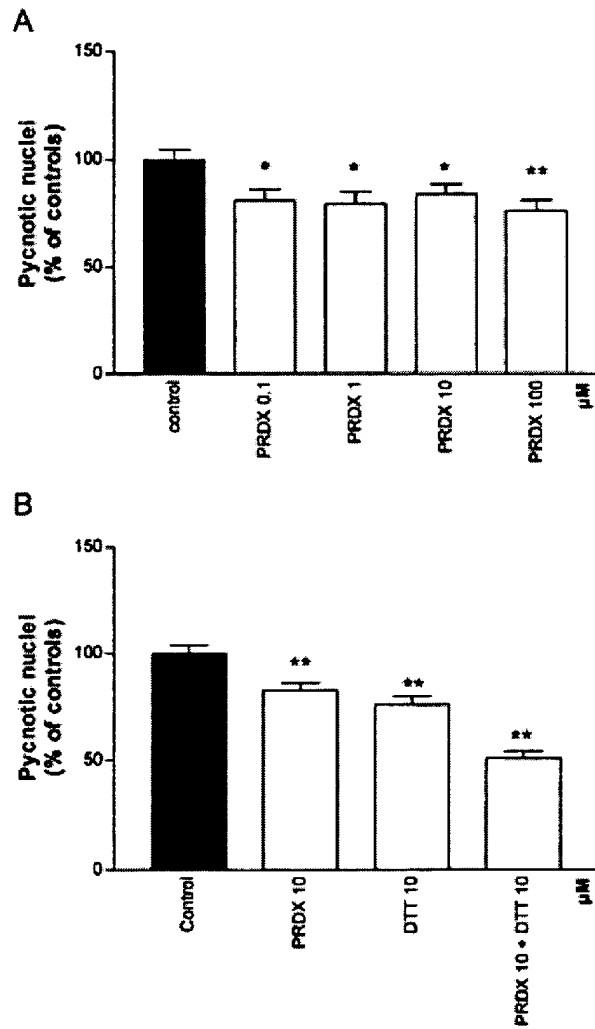


Fig. 13



*PEROXISOME-ASSOCIATED POLYPEPTIDE, NUCLEOTIDE  
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Fig. 14

